UNIVERSITY PERFORMACE MANAGEMENT / RANKING MODEL

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1. Introduction

Performance measurement of any university is measured by many factors and one of the core factors is quality of education provided by university and how these taught courses will eventually lead the student to get their dream jobs. A performance measurement solution is created using software engineering techniques that enables universities to measure the quality of the education they deliver to their students. The feedback from the alumni and current students who are either on co-op/parttime are taken into account to determine the factors like faculty and courses in the educational system that contributed to their growth over a 5-year span.

2. Proposed Solution

Our important focus is to build a performance measurement solution to measure the quality of education they deliver to the students, so the current and future students will have a better idea about selecting courses by analyzing their interest and relevant university ranking.

This is not only limited to the students but more to the Admin as they can open the dashboard and see the count or list of courses students have opted and which led to them on co-op/part-time. Also, we have included the Feedback form for the students which will provide the ranking of the courses they have enrolled and how much it is/was useful.

The dashboard will include view colleges, departments, courses, classes, view student enrollment details, view student employment details and last but not the least the feedback form to capture the courses helped to improve skills and knowledge gain. Hence, using this module the admin can evaluate the performance that will be helpful for Admin and Students too.

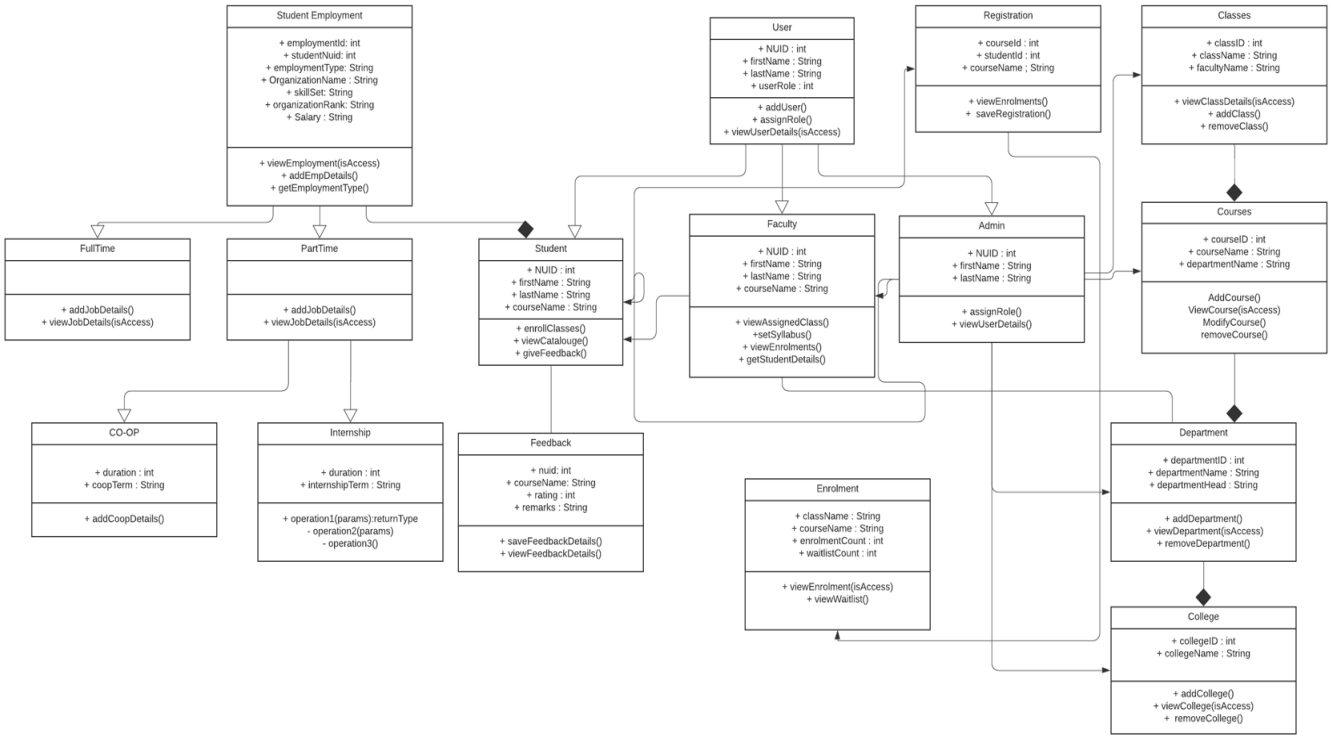
3. Model Assumptions:

- The factors which affect the rating of the course have been emphasized upon directly to the ranking of the university. Any undeclared condition and/or parameters would be a limitation to the scope of the university course's ranking model and its evaluation.
- The amalgamation of roles and responsibilities of namely Students, Faculty, Courses, Enrollments and Student Feedback - the factors affecting the ranking of the university model and its course evaluation.

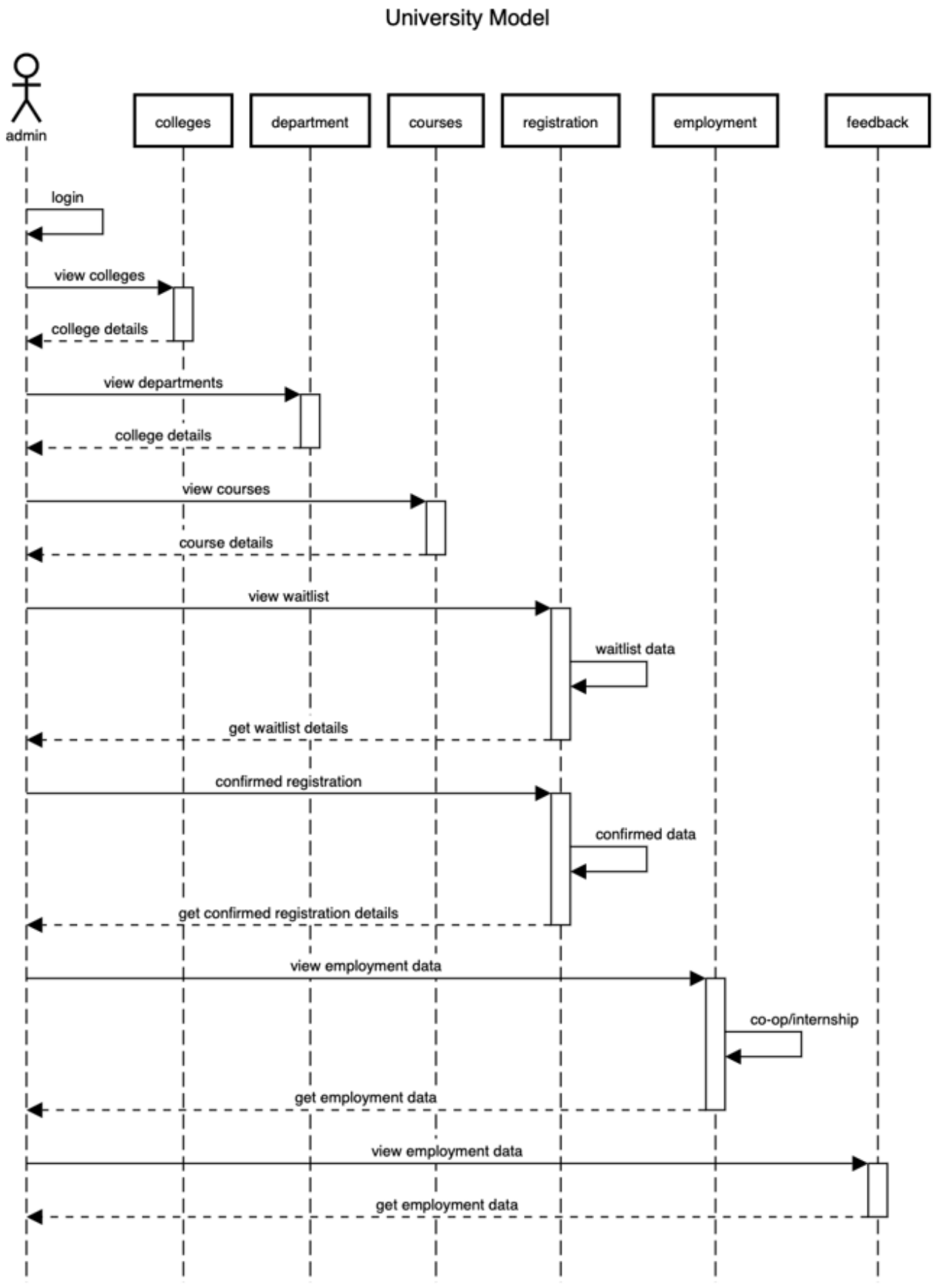
4. ENTITY:

- **User:** It holds the list of all the User.
- **Role:** User can be **Student**, **Faculty** and **Admin**
- **College:** List of colleges under the university
- **Departments:** one college can have multiple Departments
- **Course:** It holds all the courses offered in the university
- **Classes:** one course can have multiple classes which taught by faculties
- **Enrollments/ Registration:** Student enrolled for various courses
- **Employment:** List of students who secured co-op/part-time employment
- **Course Feedback:** It takes into account all the feedback from the particular courses and which is given by the Current student and student alumina who have secured co-op and internship
- **Skills:** Student who are/were in co-op and part-time can fill up the form of expected skills in the industry
- **Student:** Holds information of all the persons, name, NUID, and courses allocated to them
- **Admin**: View information about Student, Faculty, Courses, Feedback and Enrollment information etc.
- **Student:** Holds information of all the persons, name, NUID, and courses allocated to them
- **Faculty:** Holds information of all the persons, faculty assignments, name, id, and courses allocated to them

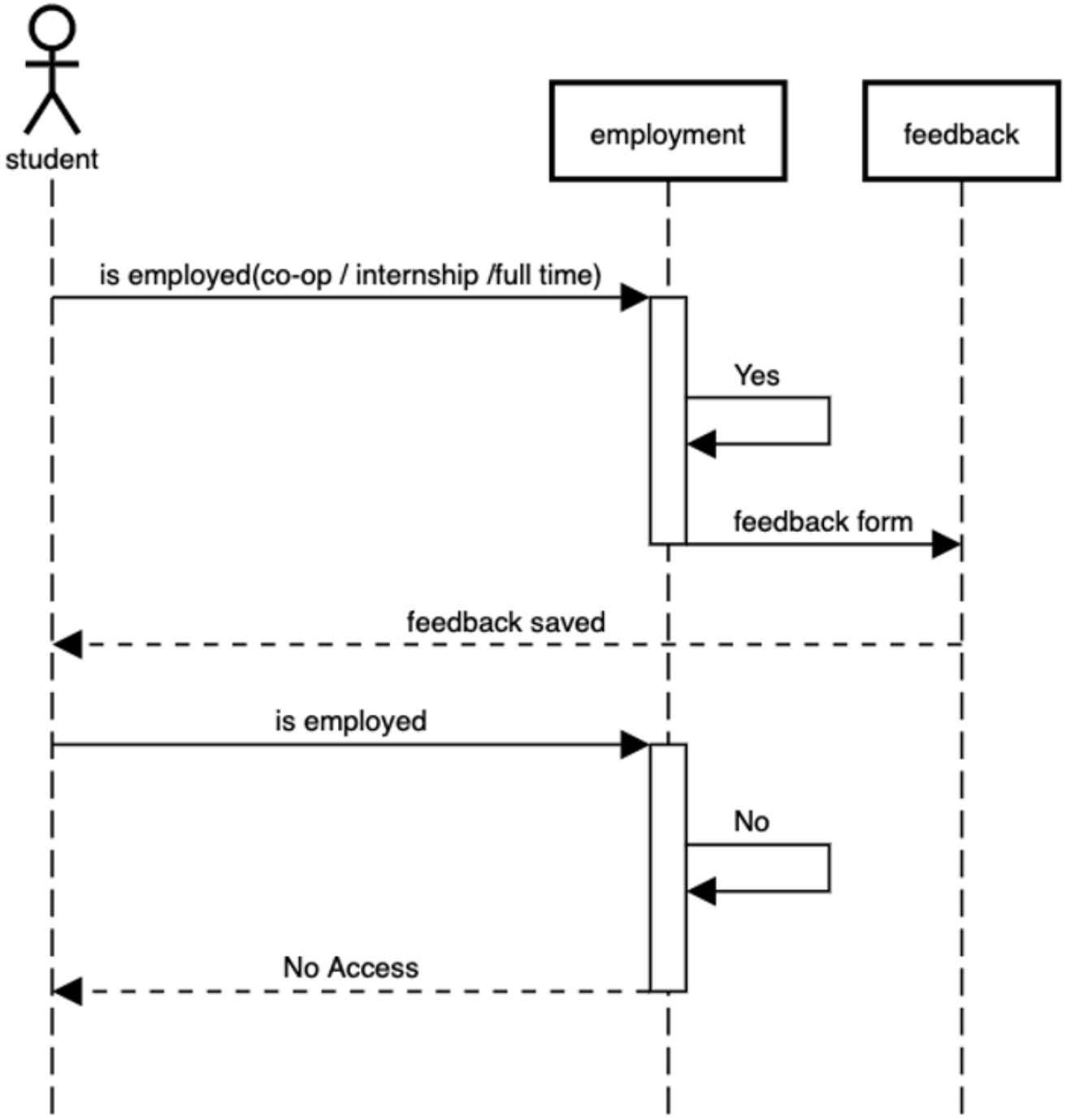
CLASS DIAGRAM



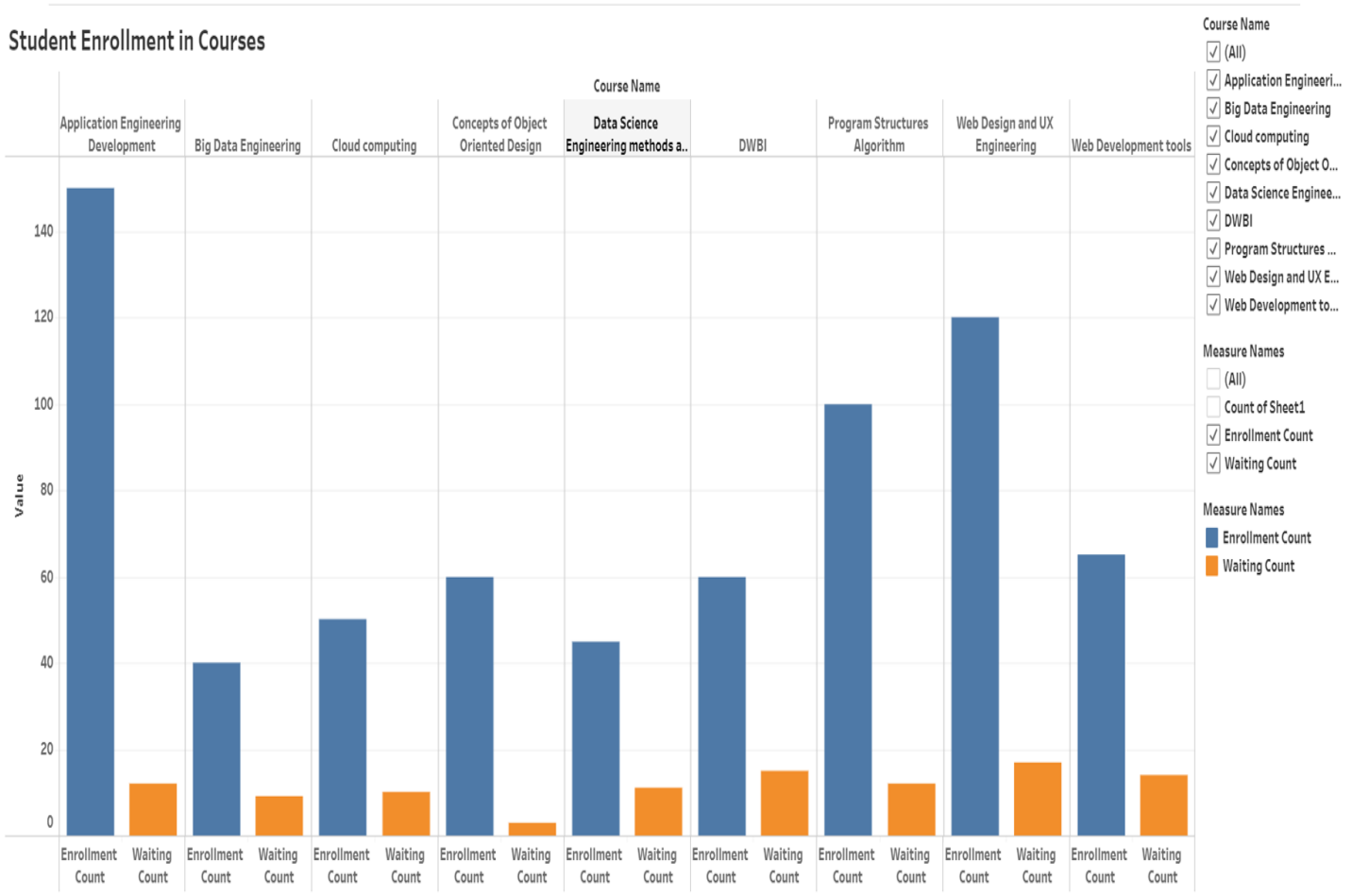
SEQUENCE DIAGRAM

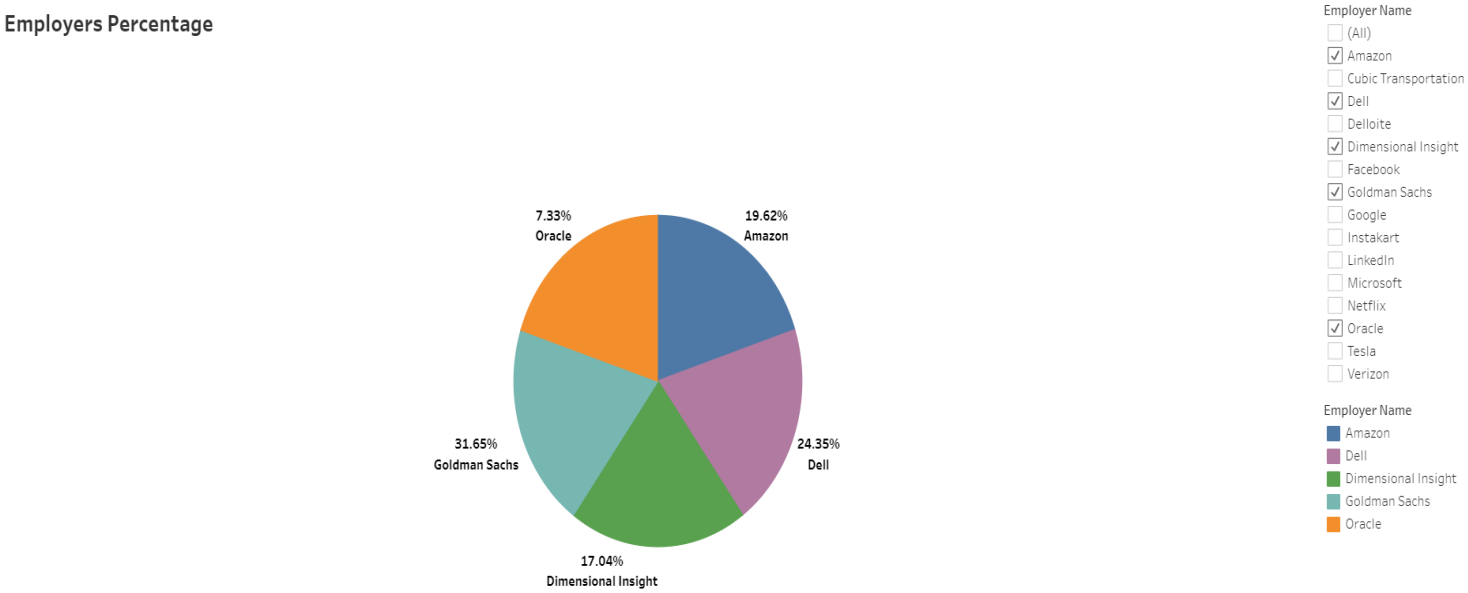


Student Feedback

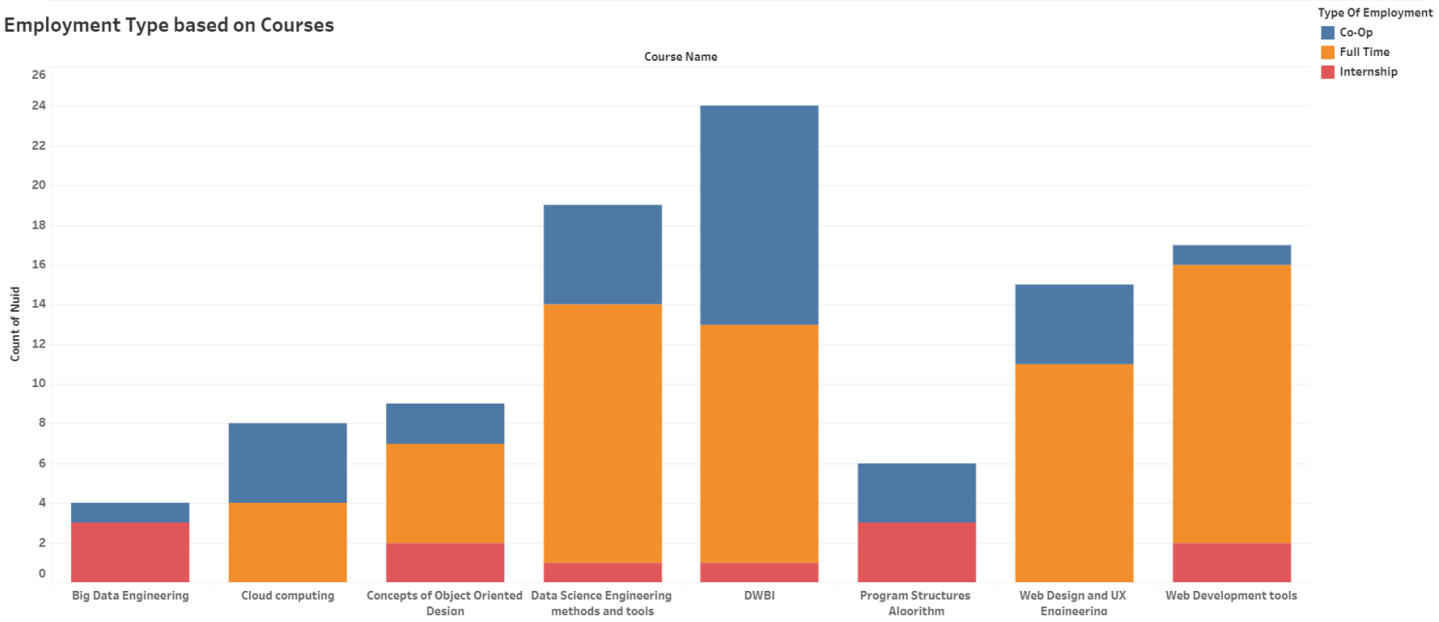


DASHBOARDS

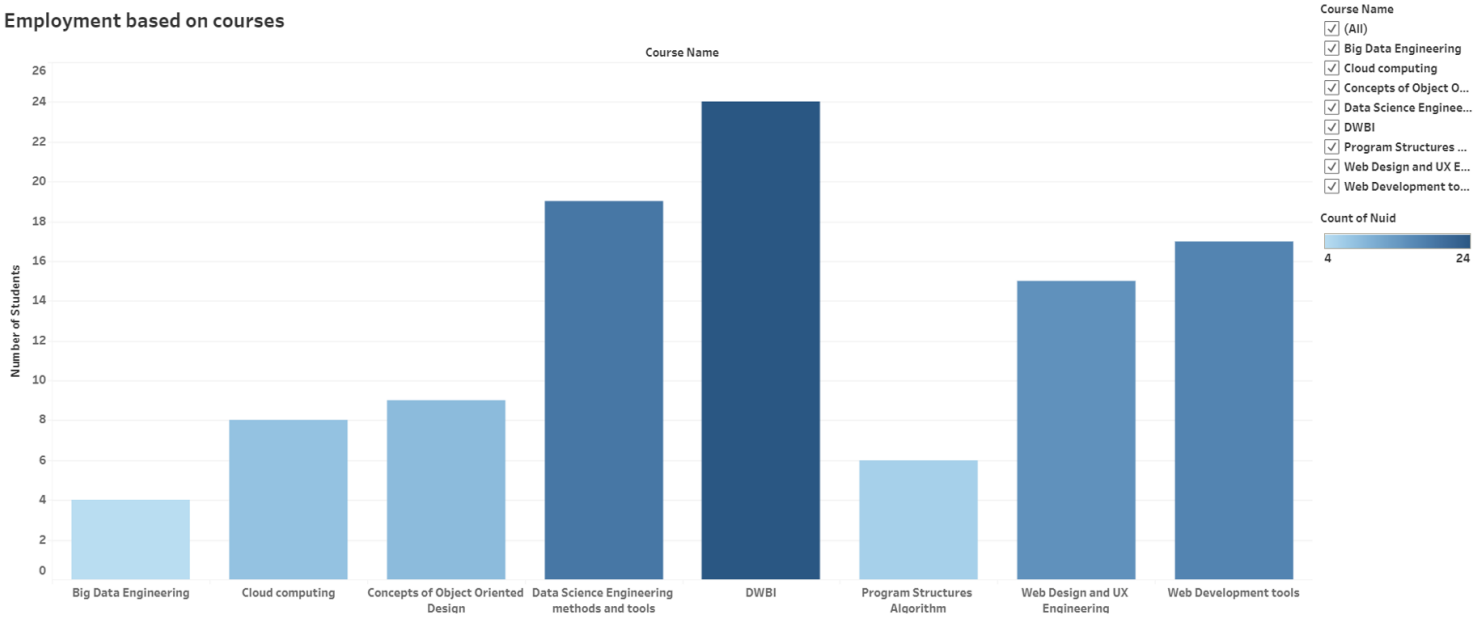

Student Enrollment in Courses
Course Name
Application Engineering Development
Big Data Engineering
Cloud computing
Concepts of Object Oriented Design
Data Science Engineering methods a..
DWBI
Program Structures Algorithm
Web Design and UX Engineering
Web Development tools
Value
0
20
40
60
80
100
120
140
Enrollment Count
Waiting Count
Course Name
(All)
Application Engineeri...
Big Data Engineering
Cloud computing
Concepts of Object O...
Data Science Enginee...
DWBI
Program Structures ...
Web Design and UX E...
Web Development to...
Measure Names
(All)
Count of Sheet1
Enrollment Count
Waiting Count
Measure Names
Enrollment Count
Waiting Count


Employers Percentage
7.33%
Oracle
19.62%
Amazon
31.65%
Goldman Sachs
24.35%
Dell
17.04%
Dimensional Insight
Employer Name
(All)
Amazon
Cubic Transportation
Dell
Delloite
Dimensional Insight
Facebook
Goldman Sachs
Google
Instakart
LinkedIn
Microsoft
Netflix
Oracle
Tesla
Verizon
Employer Name
Amazon
Dell
Dimensional Insight
Goldman Sachs
Oracle

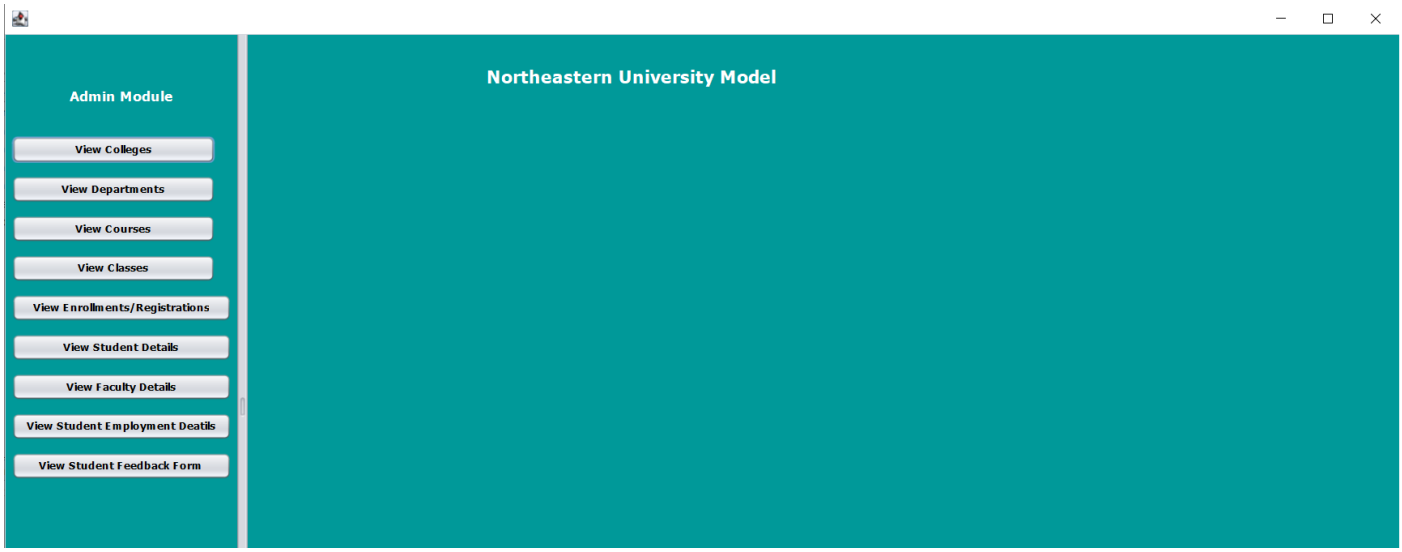
Employment Type based on Courses

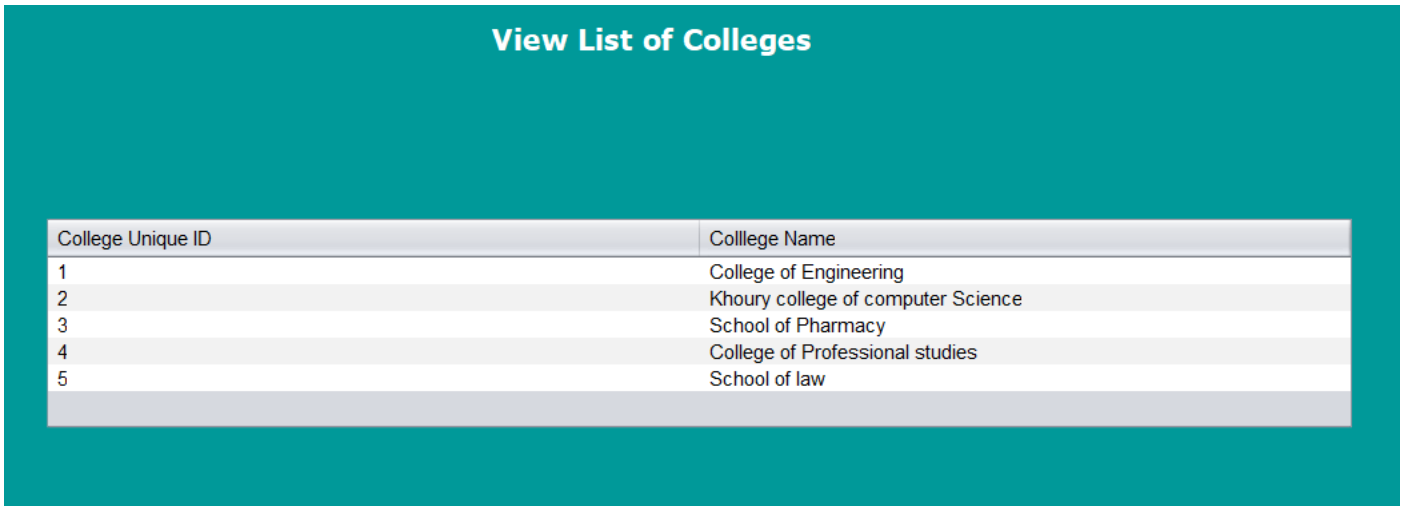


Employment based on courses



USER INTERFACES





View List of Departments

Department Unique ID	Department Name	Department Head
1	Information Systems	Kal bugara
2	DAMG	Nick Brown
3	Software Engineering	Robin Hillyard
4	Data Analytics Engineering	Vishal Chawla

View List of Courses

Course Unique ID	Course Name	Department Name
5100	Application Engineering Development	Information Systems
6150	Web Design and UX Engineering	Information Systems
5150	Concepts of Object Oriented Design	Software Engineering
5200	Program structures and algorithms	Software Engineering
5250	DWBI	Information Systems
5300	Data Science Engineering methods and tools	DAMG
5350	Web Development tools	Information Systems
5400	Big Data Engineering	DAMG
5450	Cloud computing	Information Systems

View List of Classes

Class Unique ID	Class Name	Faculty Name
1	Application Engineering Development	Kal Bugrara
2	Web Design and UX Engineering	Vishal Chawla
3	Concepts of Object Oriented Design	Amuthan Arulraj
4	Concepts of Object Oriented Design	Daniel Peters
5	Program Structures Algorithm	Nick Brown
6	Program Structures Algorithm	Robin Hillyard
7	DWBI	Aretha Rocque
8	DWBI	Praneet Breganza
9	Data Science Engineering methods and tools	Dino K
10	Data Science Engineering methods and tools	Shinzo Abe
11	Web Development tools	Lee chong We
12	Big Data Engineering	Severus Snape
13	Cloud computing	Nitish Parikh
14	Web Development tools	Mohan Nanwani

View List of Enrollments

Enrollment Unique ID	Class Name	Course Name	Total Enrollment Count	Waiting Count
1	1	Application Engineering Devel...	450	12
2	2	Web Design and UX Engineer...	40	3
3	3	Web Design and UX Engineer...	140	14
4	4	Concepts of Object Oriented ...	60	3
5	5	Program Structures Algorithm	90	8
6	6	Program Structures Algorithm	65	4
7	7	DWBI	50	2
8	8	DWBI	60	2
9	9	Data Science Engineering me...	76	6
10	10	Data Science Engineering me...	55	5
11	11	Web Development tools	65	4
12	12	Big Data Engineering	45	2
13	13	Cloud computing	50	2
14	14	Web Development tools	55	3

View List of Student Details

NUID	First Name	Last Name	Course Name
1561792	Tarun	Balwani	Web Design and UX Engineering
1561793	Sneha	Methwani	DWBI
1561794	Jinal	Mamaniya	Web Design and UX Engineering
1561795	Virendra	Rathore	Web Design and UX Engineering
1561796	Kiran	Reddy	Data Science Engineering methods an..
1561796	Diksha	Bhatia	Program Structures Algorithm
1561797	Harshil	Patel	Data Science Engineering methods an..
1561798	Pooja	Singh	Data Science Engineering methods an..
1561799	Aravind	Poornachandra	DWBI
1561800	Piyush	Pohekar	Web Development tools
1561801	Akshay	Bayes	Program Structures Algorithm
1561802	Ray	Ban	Concepts of Object Oriented Design
1561803	Loius	Vuitton	Concepts of Object Oriented Design
1561804	Calvin	Klein	Cloud computing
1561805	Vinit	Harsora	Concepts of Object Oriented Design
1561806	Pratik	Nakave	Concepts of Object Oriented Design
1561807	Chinmay	Ashtikar	Big Data Engineering
1561808	Tejas	Wate	DWBI
1561809	Dinesh	Reddy	Cloud computing
1561810	Nithin	Reddy	Program Structures Algorithm
1561811	Charan	Reddy	Web Development tools
1561812	Shivangee	Nagar	Web Development tools
1561813	Aishwarya	Balyaya	Cloud computing
1561814	Mohan	Nanwani	Application Engineering Development
1561815	Anmol	Malik	Cloud computing
1561816	Akash	Kedia	Big Data Engineering
1561818	Shirley	Setiya	Application Engineering Development
1561819	Pranjal	Sharma	Application Engineering Development
1561820	Nihal	Kashyap	Big Data Engineering
1561821	Sahil	Upadhye	Web Design and UX Engineering
1561822	Junaid	Sheikh	DWBI
1561823	Khatua	Balyaya	Big Data Engineering

View List of Faculty Details

NUID	First Name	Last Name	Course Name
114895	Kal	Bugara	Application Engineering Developme..
114896	Vishal	Chawla	Web Design and UX Engineering
114897	Amuthan	Arularaj	Web Design and UX Engineering
114898	Daniel	Peters	Concepts of Object Oriented Desig...
114890	Nick	Brown	Program structures and algorithms
114891	Robin	Hillyard	Program structures and algorithms
114892	Aretha	Rocque	DWBI
114895	Praneet	Breganza	DWBI
114871	Dino	K	Data Science Engineering methods..
114871	Dino	K	Data Science Engineering methods..
114872	Shinzo	Abe	Data Science Engineering methods..
114873	Lee chong	We	Web Development tools
114874	Severus	Snape	Big Data Engineering
114875	Nitish	Parikh	Cloud computing
114876	Mohan	Nanwani	Web Development tools

View List of Student Employment Details

NUID	Type Of Employment	Employer Name
1561792	Co-Op	Tesla
1561793	Co-Op	Amazon
1561794	Co-Op	Facebook
1561796	Internship	Ahold Delhaize
1561797	Internship	Athena health
1561798	Co-Op	Athena health
1561799	Co-Op	Ahold Delhaize
1561800	Co-Op	Instakart
1561801	Internship	Cubic Transportation
1561802	Internship	Oracle
1561803	Co-Op	LinkedIn
1561804	Co-Op	Microsoft
1561805	Co-Op	Netflix
1561806	Internship	Mercedes
1561807	Internship	Fiat
1561808	Co-Op	Philips
1561809	Co-Op	Salesforce
1561810	Co-Op	Blackrock
1561811	Internship	Datamatics
1561812	Internship	Fidelity Investments
1561813	Co-Op	Amazon Robotics
1561814	Co-Op	Verizon
1561815	Co-Op	Dell
1561816	Internship	Google
1561818	Internship	Philips
1561819	Mercedes	Dell
1561820	Schindler	Dell
1561821	Walmart	Dell
1561822	Internship	Accenture
1561823	Internship	Delloite

View List of Student Feedback Details

NUID	Course Name	Ratings	Remarksl
1561792	Web Design and UX Engineering	4	Good
1561793	DWBI	4	Good
1561794	Web Design and UX Engineering	4	Good
1561795	Web Design and UX Engineering	4	Good
1561796	Program Structures Algorithm	5	Best
1561797	Data Science Engineering methods..	5	Best
1561798	Data Science Engineering methods..	5	Best
1561799	DWBI	3	Could Be Better
1561800	Web Development tools	3	Could Be Better
1561801	Program Structures Algorithm	5	Best
1561802	Concepts of Object Oriented Desig..	5	Best
1561803	Concepts of Object Oriented Desig..	3	Could Be Better
1561804	Cloud computing	4	Good
1561805	Concepts of Object Oriented Desig..	4	Good
1561806	Concepts of Object Oriented Desig..	4	Good
1561807	Big Data Engineering	3	Could be better
1561808	DWBI	3	Could be better
1561809	Cloud computing	3	Could be better
1561810	Program Structures Algorithm	4	Good
1561811	Web Development tools	4	Good
1561812	Web Development tools	4	Good
1561813	Cloud computing	4	Good
1561814	Application Engineering Developme..	4	Good
1561815	Cloud computing	4	Good
1561816	Big Data Engineering	3	Could be better
1561818	Application Engineering Developme..	2	Needs Improvement
1561819	Application Engineering Developme..	2	Needs Improvement
1561820	Big Data Engineering	3	Could be better
1561821	Web Design and UX Engineering	4	Good
1561822	DWBI	5	Best
1561823	Big Data Engineering	5	Best

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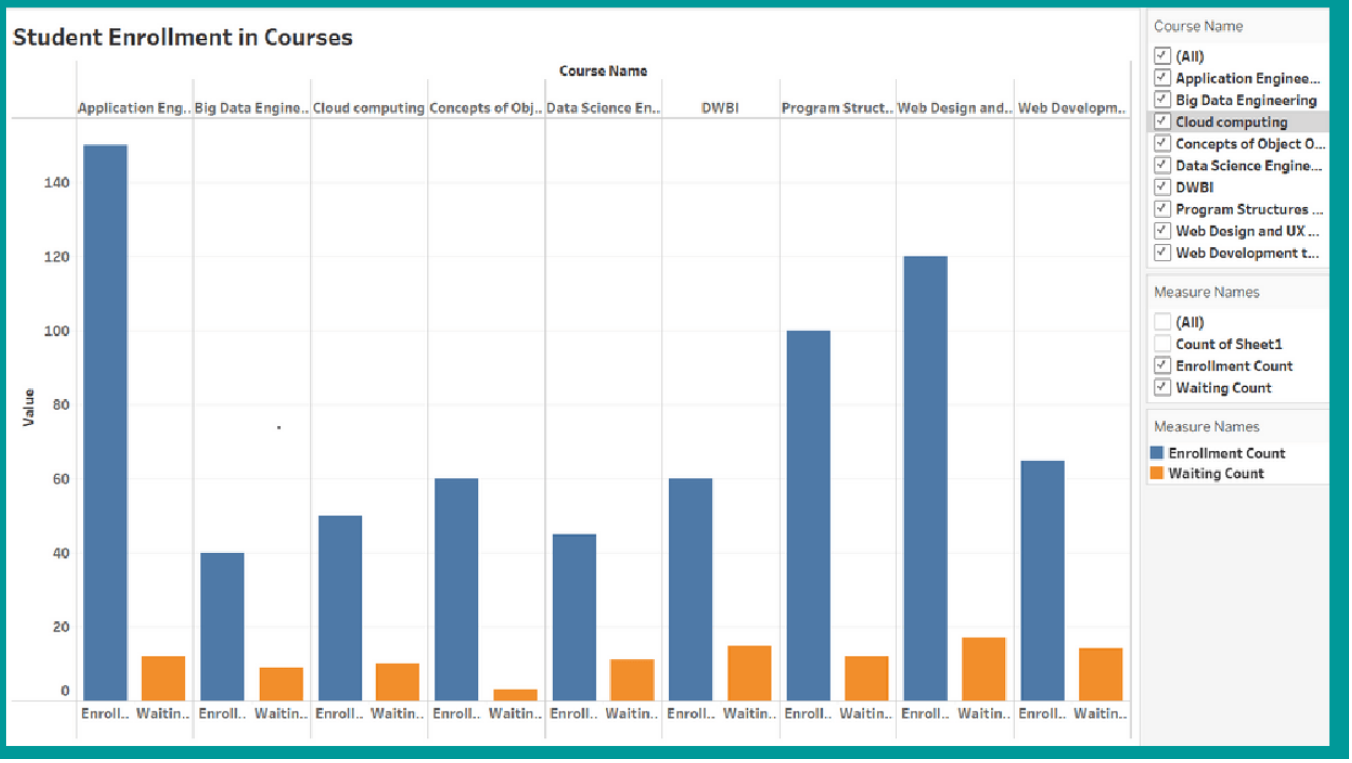

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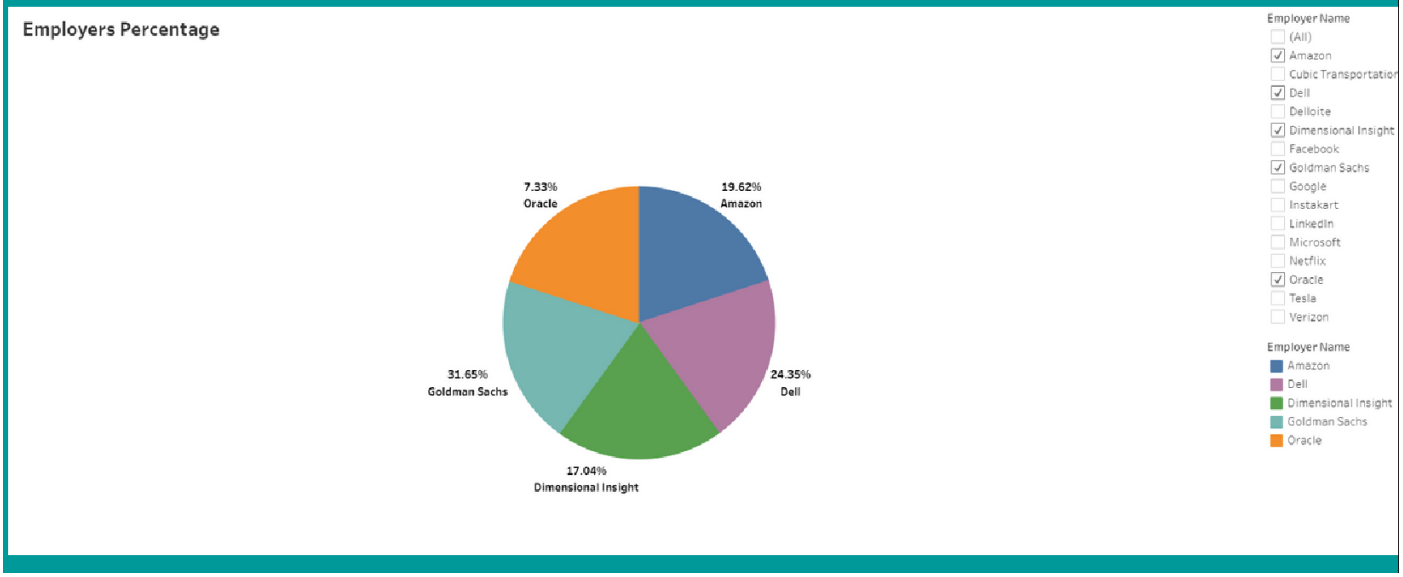
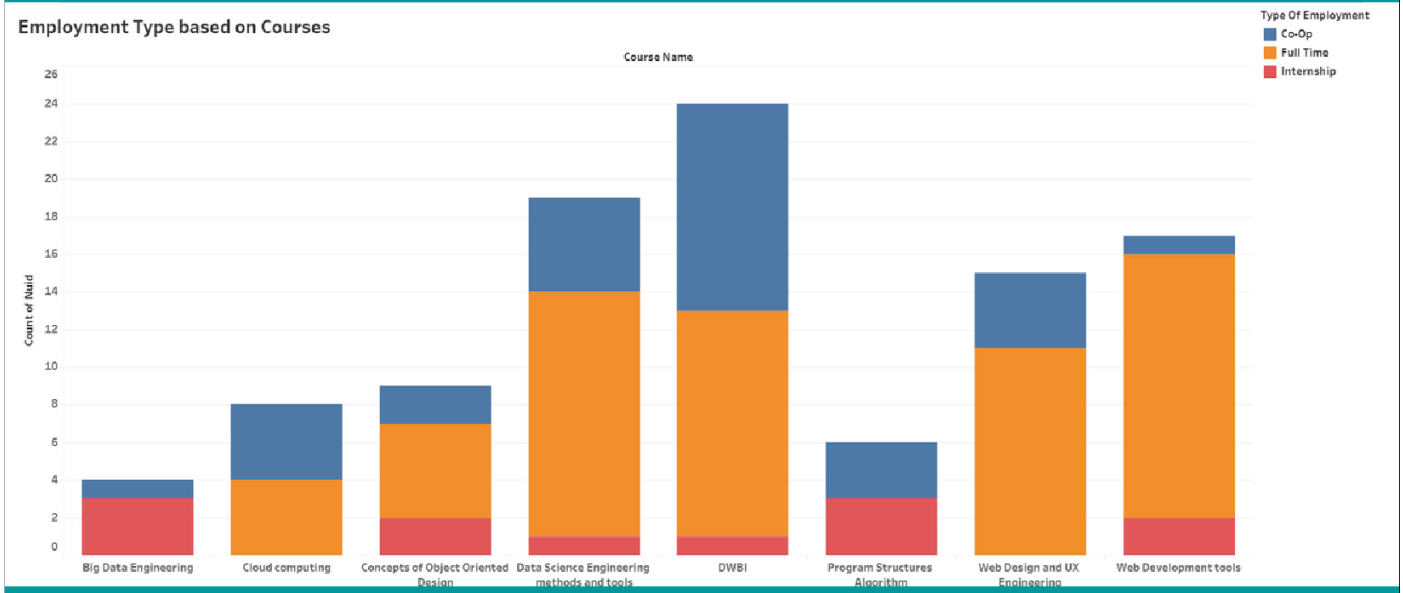


View Employment Type based on Courses



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